

03–343 Removal and installation of pulley and balancing disc

Tightening torques

Nm

Bolt M 18 x 1.5 x 45 on crankshaft

270–330

Bolts M 8 x 20

35

Special tools

Socket 27 mm, 1/2" square



001 589 65 09 00

Torque wrench 3/4" square,
150–500 Nm



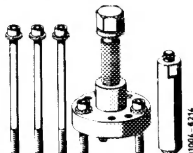
001 589 31 21 00

Detent



110 589 00 40 00

Puller for balancing disc



116 589 10 33 00

Conventional tool

Adapter 3/4" square
socket to 1/2" square head

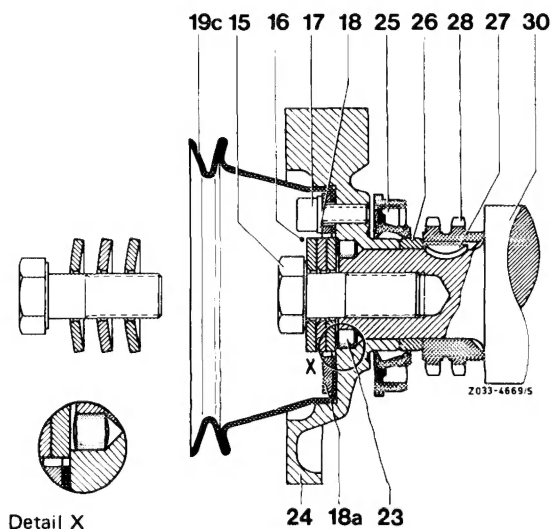
e.g. made by Hazet, D–5630 Remscheid
order no. 1058 R-1

Note

When the **balancing disc** is replaced, **static balancing** is required (03–344).

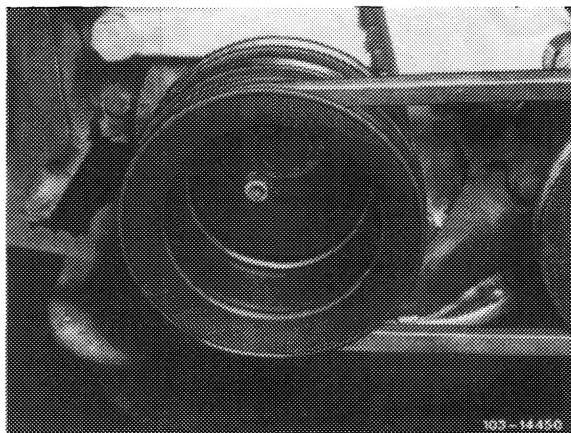
- 15 Bolt M 18 x 1.5 x 45
- 16 Disc springs
- 17 Bolts M 8 x 20
- 18 Washer
- 18a Thrust washer
- 19c Pulley
- 23 Set pin 8 x 8

- 24 Balancing disc
- 25 Radial sealing ring
- 26 Spacing ring
- 27 Woodruff key
- 28 Crankshaft gear
- 30 Crankshaft



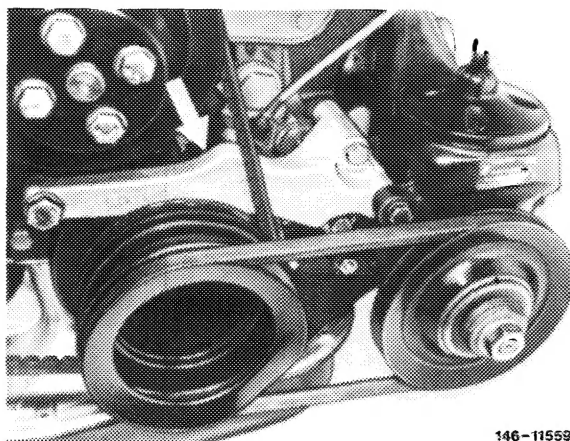
Removal

- 1 Remove radiator and fan.
- 2 Unscrew pulley and remove.

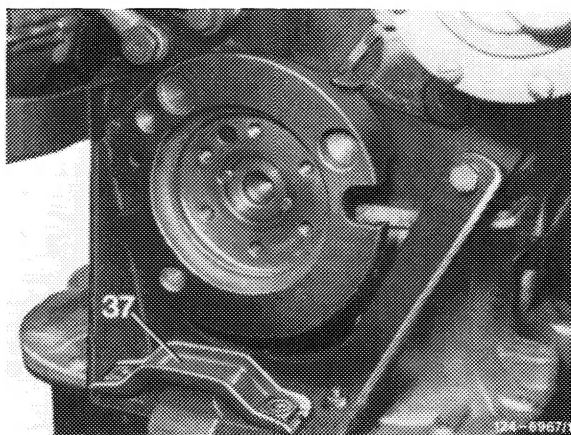


- 3 On model 123 with powersteering, remove front aluminum carrier of powersteering pump (arrow)

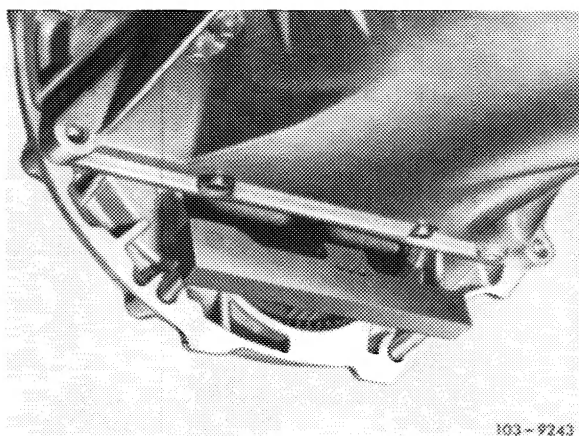
Note: Not required for (AUS) , (J) , (S) and (USA) starting 1977.



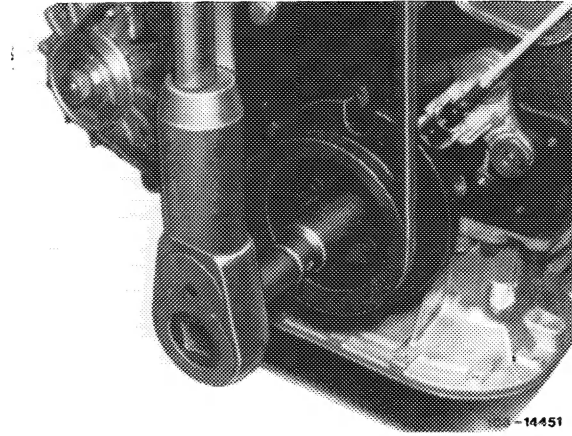
- 4 On model 115.015, unscrew clamp (37) of front engine stop.



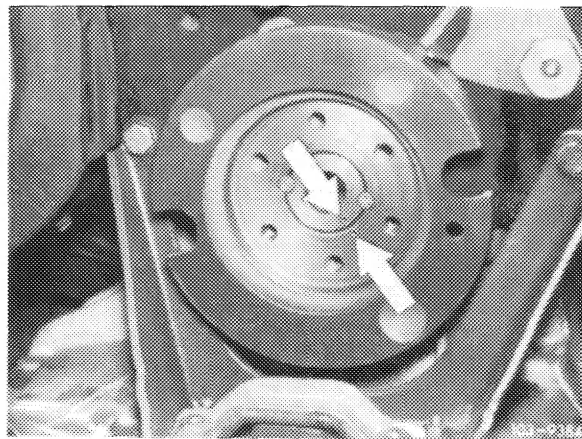
- 5 Position detent against flywheel.



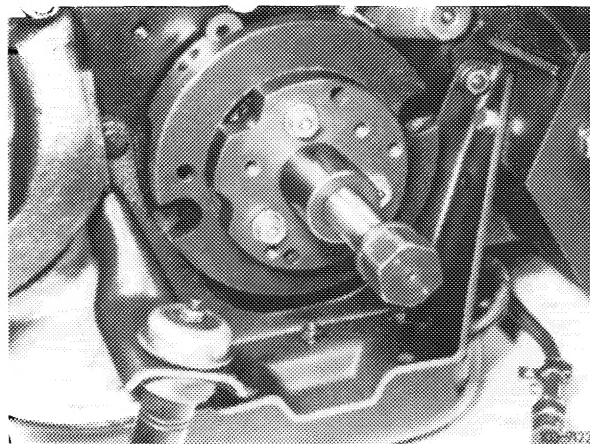
6 Unscrew bolt on crankshaft.



7 Mark balancing disc and crankshaft by means of a punch.



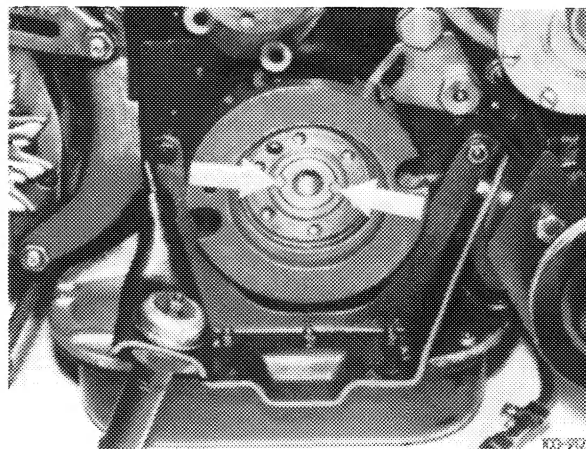
8 Pull-off balancing disc with puller.



Installation

9 Place balancing disc on crankshaft in such a manner that the bores for the set pins are in alignment.

Note: The balancing disc is located on crankshaft by means of two **offset** set pins.

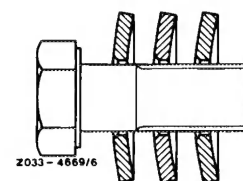


10 Mount balancing disc with bolt M 18 x 1.5 x 45 and disc springs on crankshaft.

11 Knock in both set pins.

12 Mount the three disc springs with crown toward bolthead.

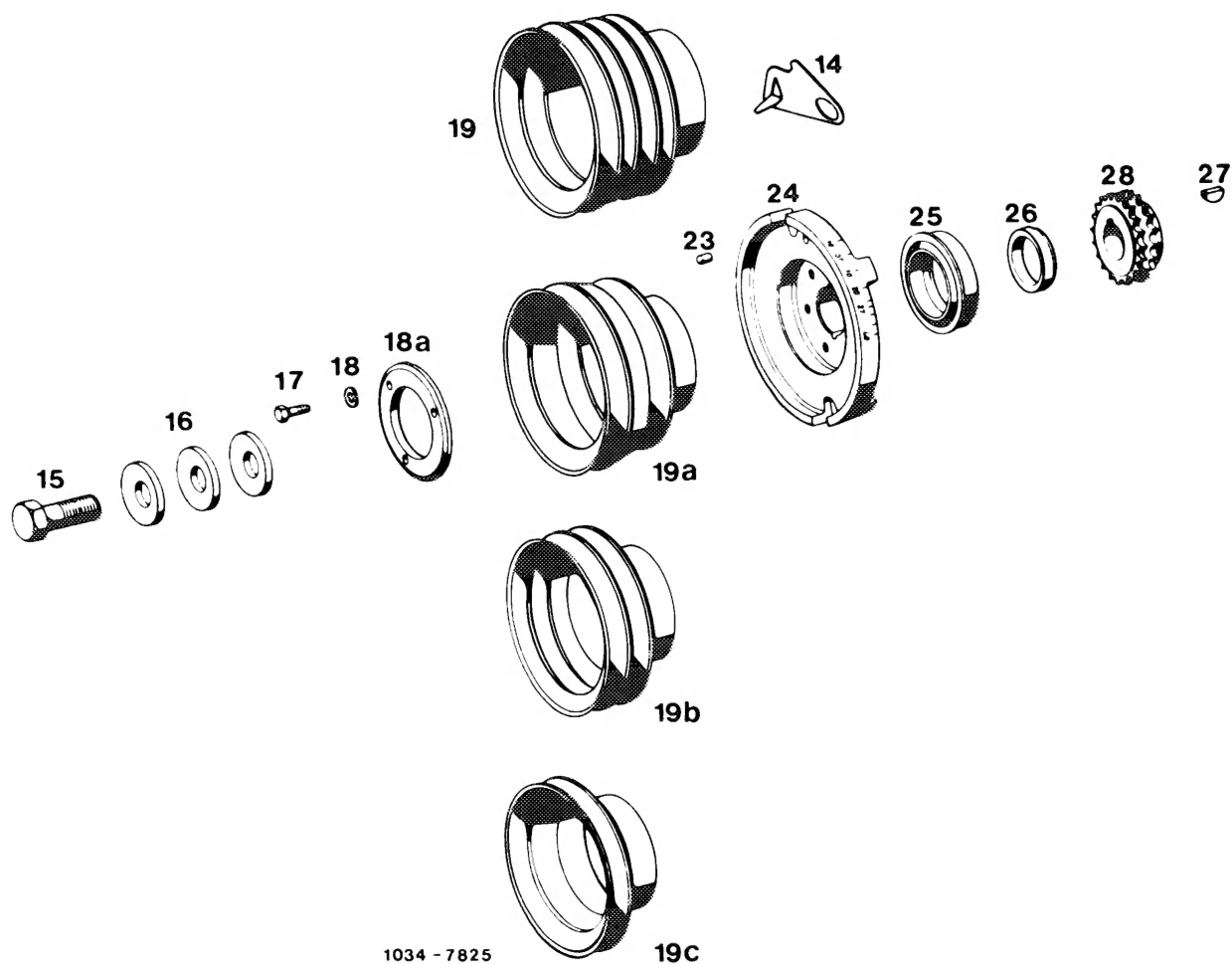
13 Tighten bolt on crankshaft to 270–330 Nm, while applying counterhold to crankshaft by means of detent.



14 On model 123 with powersteering, install aluminum carrier and on model 115.015 clamp for front engine stop.

15 Install pulley, fan and cooler.

Balancing disc and pulleys



1034 - 7825

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|-----|---|----|---------------------|
| 14 | Indicator | 23 | 2 Sets pins 8 x 8 |
| 15 | Bolt M 18 x 1.5 x 45 | 24 | Balancing disc |
| 16 | Disc springs | 25 | Radial sealing ring |
| 17 | 3 Bolts M 8 x 20 | 26 | Facing ring |
| 18 | 3 Washers 8.4 | 27 | Woodruff key |
| 18a | Thrust washer | 28 | Crankshaft sprocket |
| 19 | Pulley
(Engines 115.951/954 with powersteering, air conditioner and air pump) | | |
| 19a | Pulley
(Engines 115.938/939/954 with powersteering and air conditioner in combination with pulley 19c) | | |
| 19b | Pulley (Engines 115.923/926/951 with powersteering and air conditioner in combination with pulley 19c) | | |
| 19c | Pulley (not installed with pulley 19) | | |